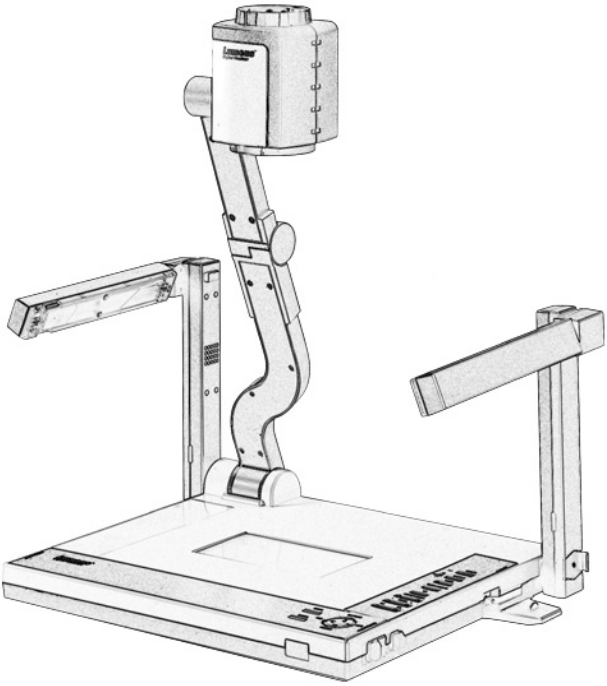
PS600
Digital Visualizer

User Manual-English



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Chapter 1 Precautions

Always follow these safety instructions when setting up and using the Digital Presenter:

1. Do not place the Digital Presenter on an unstable trolley, stand or table.
2. Do not use the Digital Presenter near water or source of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the Digital Presenter. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
5. Place the Digital Presenter can be easily unplugged.
6. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
   - Ensure the plug is free of dust before inserting it into a socket.
   - Ensure that the plug is inserted into the socket securely.
7. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
8. Do not place the Digital Presenter where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
9. Unplug the projector form the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
10. Do not block the slots and openings in the projector case. They provide ventilation and prevent the Digital Presenter from overheating. Do not place the Digital Presenter on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
11. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Digital Presenter.
12. Except as specifically instructed in this User's Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
13. Unplug the Digital Presenter during thunderstorms or if it is not going to be used for an extended period, do not place the Digital Presenter or remote control on top of beat-emitting equipment or heated objects such as a car and etc.
14. In the following situations, unplug the Digital Presenter from the wall outlet and refer servicing to licensed service personnel:

- If the power cable or plug becomes damaged or frayed.
- If liquid is spilled into it or the Digital Presenter has been exposed to rain or water.

➢ Safety Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

This Digital Presenter has a 3 wires AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to defeat this safety feature.
If the Digital Presenter will not be used for an extended time, unplug it from the power outlet.

<table>
<tr><td colspan="4"> CAUTION RISK OF ELECTRIC SHOCK </td></tr>
<tr><td colspan="4">Caution: To reduce the risk of electric shock. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service Personnel.</td></tr>
<tr><td> </td><td>This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.</td><td> </td><td>This symbol indicates that there are important operating and maintenance instructions in this User's Manual with this unit.</td></tr>
</table>

➢ FCC Warning

This Digital Presenter has been certified to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against a harmful interference when the equipment is operated in a commercial environment.

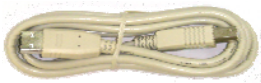
➢ EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

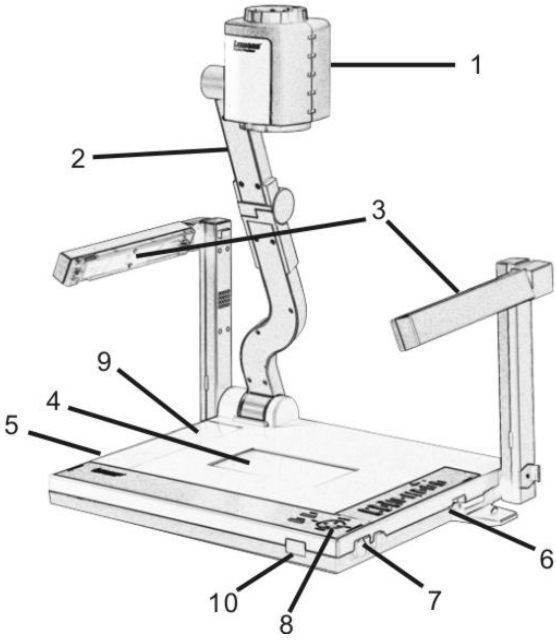
Chapter 2 Package Content

Please make sure the package comes with the following items when you unpack:

PS600	Quick start guide	User Manual
CD	**Power Cable**	**USB Cable**
		
C-Video Cable	**VGA Cable**	**Remote Control**

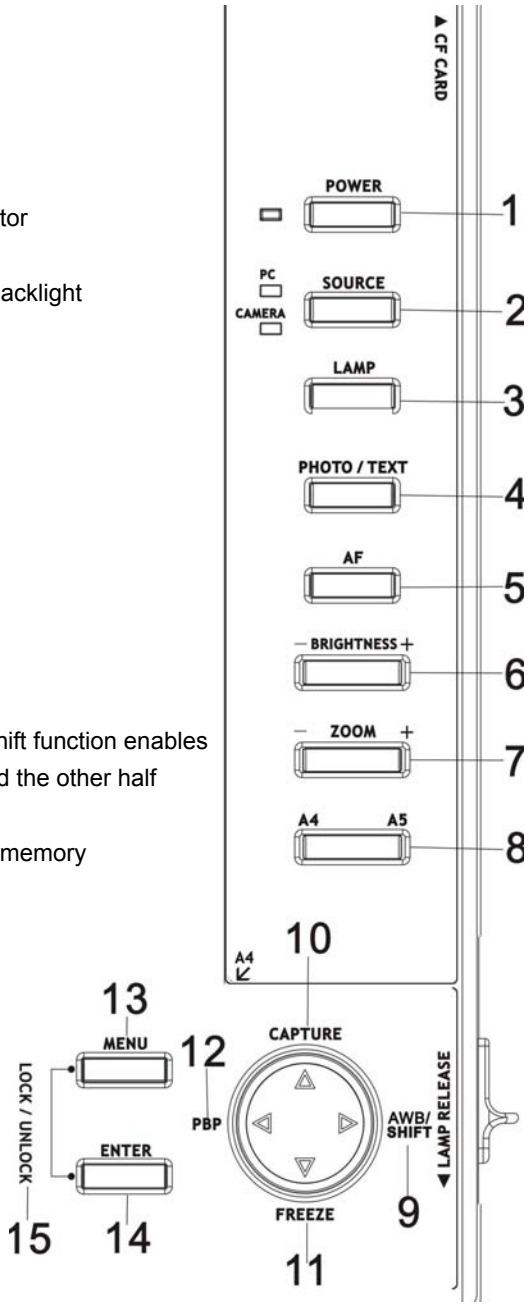
Chapter 3 Product Overview

3.1 Front View/ Rear View



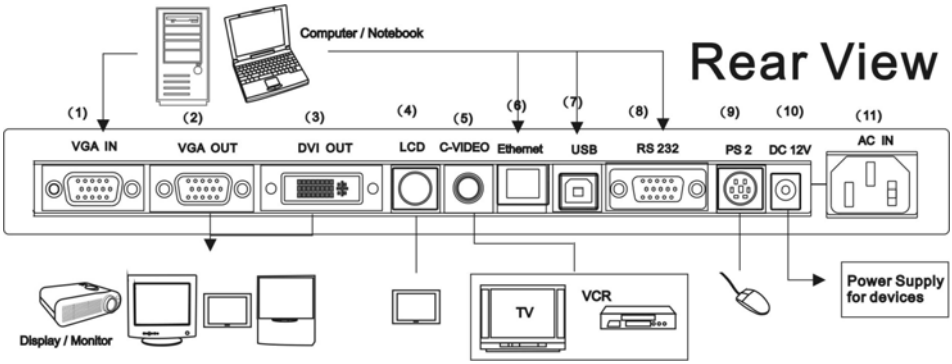
1. Camera Head
2. Camera Arm
3. Lamp
4. Backlight
5. Remote Control Slot
6. CF card slot
7. Lamp lock
8. Control Panel
9. Button Function Guide
10. IR Sensor

3.2 Control Panel



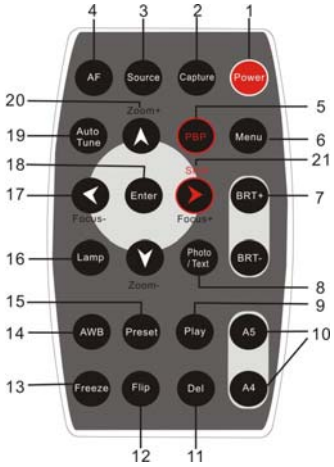
1. **Power：**
   Power on/off
2. **Source：**
   Select PC or Camera to Projector
3. **Lamp：**
   Switch / on / off the lamp and backlight
4. **Photo/Text：**
   Select the photo or text mode
5. **AF：**
   Auto Focus
6. **Brightness +/–**
   Brightness Adjustment
7. **Zoom + /–**
   zoom in/out
8. **A4/A5：**
   Speedy zoom to A4/ A5 size
9. **AWB/Shift：**
   AWB is Auto White Balance; Shift function enables in PBP mode that can be shifted the other half
10. **Capture**
    Capture an image into internal memory or storage card
11. **Freeze**
    Freeze the live image
12. **PBP**
    Compare the live image and captured image
13. **Menu**
    Entry the OSD menu
14. **Enter：** Enter
15. **Lock/ Unlock**
    Enable / Disable the Capture, PBP, AWB, Freeze etc

3.3 I/O Connector



1. **VGA IN**
   Connect to VGA-out of other device for example PC
2. **VGA OUT**
   Connect to VGA-in of another visual device
3. **DVI OUT**
   Digital & Analog Receptacle Connector
4. **LCD Monitor**
   External small size LCD monitor
5. **C-VIDEO**
   C-Video for video output
6. **Ethernet**
   Ethernet connection For remote central control
7. **USB (support USB 1.1)**
   Ethernet connection For remote central control
8. **PS2**
   Connect with PS/2 mouse
9. **RS232**
   Connect external device with RS232
10. **DC 12V output**
    Output the 12V (DC) from Digital Presenter, such as the backlight.
11. **AC-in**
    Use this to connect the power cable (100 - 240V) for the power input

3.4 Remote Control



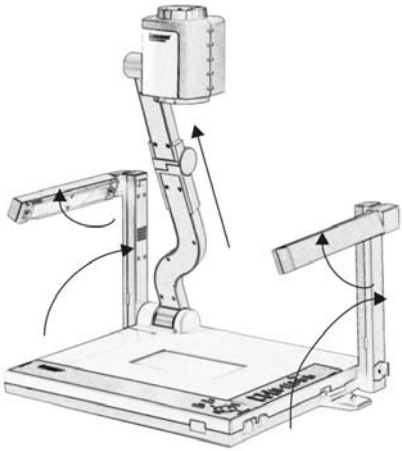
1. **Power：**
   Power on/off
2. **Capture：**
   Capture image to internal memory
3. **Source：**
   Select PC or Camera to Output
4. **AF：**
   Auto Focus
5. **PBP：**
   Compare the live image and captured image
6. **Menu：**
   Display full control menu (OSD Menu)
7. **BRT+/-：**
   Brightness adjustment
8. **Photo/ Text ：**
   Change between Photo or Text mode
9. **Play：**
   Recall the saved images in the Digital Visualizer
10. **A4/A5：**
    Speedy zoom to A4/ A5 size
11. **Del：**
    Delete the saved images in the Digital Visualizer
12. **Flip：**
    Rotate the image by 180°
13. **Freeze**
    Freeze the image on screen
14. **AWB：**
    Auto White Balance
15. **Preset：**
    Save/load your setting parameters (like brightness,)
16. **Lamp：**
    Switch / on / off the lamp and backlight
17. **Focus +/-：**
    Manual focus for fine tune
18. **Enter：**
    Enable the selected function
19. **Auto Tune：**
    Auto-adjust for optimum image
20. **Zoom + /– ：**
    Zoom adjustment
21. **Shift：**
    PBP image can be shifted the other half (Refer to 5.1.5)

※Caution：
1. To avoid unexpected electric shock or explosion, use the applicable batteries is the must.
2. Recyle the exhausted or damaged batteries by following the instructions.

Chapter 4 Installation

4.1 Setup the Digital Visualizer

1. Pull up the arm. Adjust the position and height (the height should be 48.5 cm for operation) of the arm by moving the 3-section joint
2. Turning the camera head toward the platform



※ Note：The angle of the camera head is limited. Don't turn it forcefully when it reaches the maximal angle

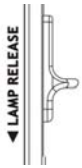
4.2 Powering on the Digital Visualizer

※Note：Before using the Digital Presenter, make sure that you have connected it to the computer, video source or other output devices. See Figure: 3-3, Rear View for the position of connector jack.

1. Connect the power cable to the AC IN jack
2. Press ⏻ (the Power button) for about 1 second to power on the Digital Presenter. The red LED (flashing until the presenter is started) turns to green

4.3 Positioning and Turning on the Lamps

You can use the lamps on the both sides of the Digital Presenter for auxiliary lighting by following some simple steps：



1. Press and slide the latches to release the lamp lock.
2. Pull up the lamp arms.
3. Rotate the folded lamp to face the platform as the arrow shows. (Refer to figure 4-1)
4. Press the lamp button of control panel and remote control to switch the side lamp or backlight.

※ Note： The angle of the lamp arm/lamp head is limited.
Do not turn it forcefully when it reaches the maximal angle

4.4 Using the Mouse

You can also control the Digital Presenter by a PS2 mouse (see the figure 3-3 for PS2 connection). For example, you can move the cursor to adjust the settings or use the cursor as a pointer for Presenter.

- **Mouse Keys**

  The left key functions as Enter. The right key is used for activating the menu. The central key/bar (when available) is for moving your selection on the menu.

4.5 Using USB and RS232

- **USB**

  You can transmit images to computer via USB interface. To enhance USB transmission, make sure that your PC supports USB protocol (the Digital Presenter is based on USB 1.1). An updated driver is available on the Lumens website (http://www.lumens.com.tw/)

- **RS232**

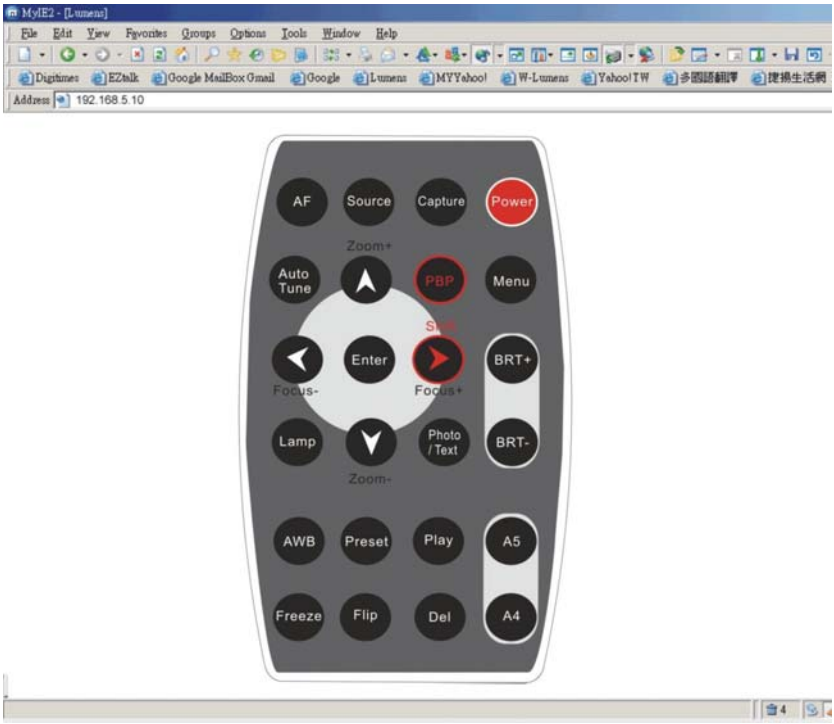
  RS232, a kind of serial protocol, facilitates remote control functions. For example, you can control the Digital Presenter installed in a conference room from a PC in another building via RS232.

4.6 Using Ethernet

The Digital Visualizer can be controlled via the internet.

1. Please connect the RJ-45 to Ethernet port (refer to the 3.3 I/O connection)
2. Select the setting of DHCP, IP, Net Mask and Gate Way. Please refer to the 5.4 Network setting steps.
3. Open the Internet Browser and key in the IP in the address field. The remote control will be shown as following then you can control the main unit remotely via internet.

※Note：If you can't use the Ethernet , please consult the network or MIS administrator to get help



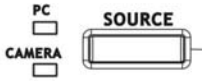
Chapter 5 Using the Digital Visualizer

This chapter shows you the basic and advanced functions of the Digital Presenter as and how to use the menu, the mouse, and the Presenter USB/RS232 interface

5.1 Getting Started

5.1.1 Select Input Source

Switch the video input from PC or Camera



- Option1：press <SOURCE> button on the control panel
- Option2：press Source on the remote control

※Note：Input source can be shown on the indicator of control panel

5.1.2 Lamp adjustment

- Press (Lamp) on the control panel or Remote Control to turn on and off the lamps and the backlight.

※Note：The lamp and backlight can not be turned on in the same time.

5.1.3 Focus

- **Speed zoom to A4 or A5 size**

  Option1：press <A4 A5> button on the control panel

  Option 2：press A4 or A5 on remote control

- **Auto Focus：**

  option1：press <AF> on the control panel

option2：press AF on the remote control

※Note：The digital visualizer will execute the Auto Focus after zoom in/ out

- **Manual Focus**

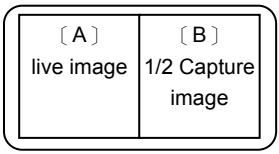
  option1：press **<ZOOM>** +/- on the control panel

  option2：press

※Note：The optical zoom will be automatically switched to the digital zoom at the last step of the optical zoom

5.1.4 PBP

Display current live image and captured image for side-by-side comparison



- Option1：press <PBP>→select captured pictures→<ENTER>

  You can press <AWB/Shift> to show the captured image at the other side

- Option2：press PBP on the remote control→select captured pictures→ Enter

- Shift to show another side captured image ***(PBP function enables in PBP mode)***

5.1.5 View remote object：

- Pull out the close-up lens, as shown in following pictures

- Rotate the camera head
- While observing the image on the monitor, adjust the zoom or arm to obtain the optimal size
- To rotate the image by 180º

Optoin1：press <MENU> then select Flip from OSD Menu

Optoin2：press Flip on the remote control

5.1.6 View transparency (Film/slide) ：

Option1：press <LAMP> on the control panel to switch backlight

Option2：press Lamp on the remote control to switch backlight

5.1.7 Brightness

Option1：press <BRIGHTNESS>+/- on the control panel

Option2：press BRT+ BRT- on the remote control

Option 3：press Auto Tune on the remote control

※Note：You may also adjust the lamps for proper lighting or turn on/off the lamps.

5.1.8 Text/ Photo mode

「Photo mode」：For image use

「Text mode」：For document use

Option 1：press <TEXT/PHOTO> on the control panel

Option 2：press

on the remote control

5.1.9 To show the captured image (Storage→Play)

Option 1：OSD／Storage ／Play

In the Index screen, the captured images were displayed in thumbnails. Whenever the box is on a thumbnail, you may see the full and large image by Enter click.

Option 2：Press

on the remote control and select image by using keys then press the

key to see the large image

5.1.10 To delete the captured image (Storage → Delete)

Option 1：OSD／Storage ／Delete

※Note：If you perform the "Delete " function, you may not delete any image unless you have selected the file and enlarged it.

Option 2：Press

on the remote control to enter the image index screen. Select an image by using keys and press< Del> button to delete.

5.2 Using the OSD Menu

5.2.1 Showing the Main Menu：

Option 1：Press <MENU> on the control panel

Option 2：Press

on the remote control

Option 3：Press right button of the PSII mouse

※Note：The menu will be automatically turned off when not being activated for a while.

5.2.2 Adjusting and confirm the settings：

Move your mouse to highlight the option your want to select. If you are using the remote control, show the Main Menu and highlight the option you want to select by pressing ▲, ▼, ◄, or ► buttons.

- Confirm a setting：

Press the

on your remote control or click the mouse to confirm the option you choose

- Exit the setting：

Option 1：Press <MENU> on the control panel

Option 2：Press

on the remote control

Option 3：Press right button of the PSII mouse

5.3 OSD Menu

Layer 1	Layer 2	Layer 3	Content
Display	Image	Normal/Gray/Film/ Slide/Microscope	Normal：default Gray：Black & while picture Film：in the backlight mode Slide： in the backlight mode (Your presenter will automatically adjust the image size, brightness, color, lamps, and AF, based on your selection of Slide or Film modes.)
	Flip	Enable/Disable	Enable is default Flip by 180° (Up→Down & Left→Right)
	AE	On (default)／Off	exposing effect of the image automatically
	Color Temp.	Warm/Middle/Cool	Select color temperature
	Output Mode	XGA 60Hz / SVGA 60 Hz	Select video output
	Focus		Adjust image focus
Storage	Play		Show captured images
	Delete		Delete captured images
	Delete All	Enter / Exit	Delete all captured images
	Format Media	Enter / Exit	Format
	Media	Internal / PC card	Select storage
	Auto Erase	On / Off	Delete all captured images when user turn off the power.

Layer 1	Layer 2	Layer 3	Content
Setting	Point Color	Red / Green / Blue	Select the cursor's color
	Drawing Type	Frame / Line	
	Video Format	Auto / NTSC / PAL	
	Language	English / Deutsch / Francais / Italiano/ Eapanol / Русский / 中繁 /中简	Select your native language
	Factory Reset	Enter / Exit	Reset all default setting
	Preset	Save/load	Save/load setting parameters
Advance	DHCP	Enable / Disable	Set DHCP (Dynamic Host Configuration Protocol)
	IP		Set IP address
	Net Mask		Set Net Mask value
	Gate Way		Set Gate Way value

The OSD menu is shown as below when the Input Source from PC

Layer 1	Layer 2	Content
PC Input	Clock	Set the clock
	Phase	Set the phase
	H-Position	Set the image horizontal position
	V-Position	Set the image vertical position
	Brightness	Set the image brightness
	Contrast	Set the image contrast
	Auto Image	Auto. set clock & Phase & Position & Brightness & Contrast

5.4 Network Setting

Step1：Confirm the Ethernet has been connected

Step2：Press <MENU> button on the control panel or entry the OSD Menu by remote control

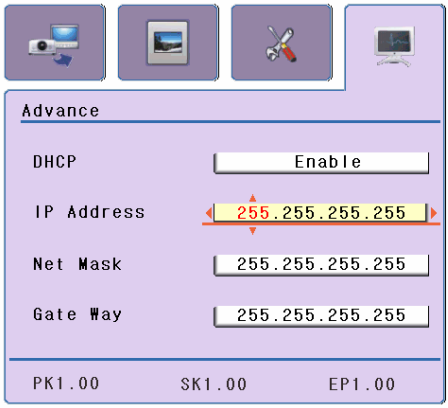
Step3：Select “Advance”

- DHCP：Dynamic Host Configuration Protocol is an Internet protocol for automating the configuration of computers.

> ※Note：Please confirm the DHCP server is available before use it.

- Default is Disable：For static IP address

  Please key in the IP, Net Mask, Gate Way value and save them if you know. Otherwise, please consult the network or MIS administrator to get help.

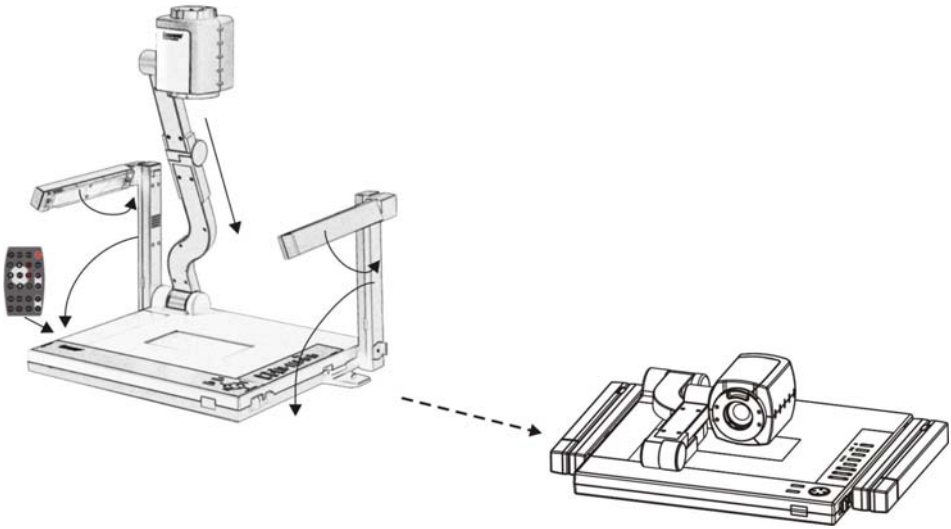


- Enable：For public IP address

  Please restart the Visualizer after the DHCP was enabled. The IP, Net Mask and Gate Way value can be got automatically by DHCP.

5.5 Storage after Use

1. Fold the arm and camera head until they touch the stage
2. Turn the camera head until it's parallel with the stage
3. Turn the upper lamps toward the supporting arms
4. Insert the remote control into the slot on the right of the Digital Visualize
5. Fold them to both sides of the Digital Visualizer until they lock in both side



Chapter 6 Q & A

This chapter describes the problems you might have encountered when you use this Digital Presenter. If you have a problem, refer to the appropriate section and follow all the suggestions that apply to your problem. If none of the suggested solutions solves the problem, call your dealer or your service center.

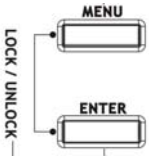
- **Q1:The ( ) system indicator does not come on.**
  Ans1:
  No power is coming on. Check that the power cord is connected securely both at the power outlet and the PS

- **Q2: No image appears on the screen.**
  Ans2：
  1. Make sure the power is installed correctly and securely.
  2. Make sure all of the cables are installed correctly and securely.
  3. Check the power of LCD monitor or projector is turn on
  4. Make sure the objector is positioned in the shooting area.

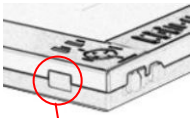
- **Q3：The image or parts of the image are blurred or not in focus**
  Ans3：
  The lens focusing is maybe not correct or the image sampling is not in the best condition. Press the AF (Auto Focus) on the remote control or the control panel.

- **Q4：Image is too dark or too bright**
  Ans4：
  Press the<BRIGHTNESS >+/- on the control panel or remote Control to adjust the brightness setting.

- **Q5：All buttons on the control panel are disable**
  Ans5：
  Press both <MENU> & <ENTER> keys simutaneously to unlock all buttons. If that is not work, please turn off the power and wait few seconds then restart the main unit.



- **Q6：Remote Control does not work.**
  Ans6：
  1. Please make sure the remote control aimed at the IR sensor
  2. Please check the battery



＊ ***The updated information will be regularly released on Lumens web site, please visit our web site http://www.lumens.com.tw for the most update***